



*sensors*



an Open Access Journal by MDPI

## Optical Technologies for Environmental Monitoring

Guest Editor:

**Prof. Dr. Shlomi Arnon**

Department of Electrical and  
Computer Engineering, Ben-  
Gurion University of the Negev,  
Be'er Sheva 8441405, Israel

Deadline for manuscript  
submissions:

**closed (31 December 2020)**

### Message from the Guest Editor

The aim of this Special Issue is to present different optical technologies to monitor our soil, water, and air in a diverse range of architectures, sensing mechanisms, and applications. We invite manuscripts for this forthcoming Special Issue in all aspects pertinent to environmental sensors. Both reviews and original research articles are welcome. Reviews should provide an up-to-date and critical overview of state-of-the-art technologies in the following research fields applied to Optical Technologies for Environmental Monitoring:

- Aerosols monitoring to detect COVID-19 virus;
- Optical fiber sensors for COVID-19 screening;
- Physical, mechanical, and electromagnetic sensors;
- Micro plastic sensing (e.g., Raman, FTIR);
- Industrial pollution monitoring;
- Soil monitoring;
- Water monitoring;
- Lidar, Ladar remote sensing;
- Satellite remote sensing;
- Multiplexing and sensor networking;
- Distributed sensing;
- Agriculture pollution monitoring;
- Interferometric and polarimetric sensors;
- Sensor based on backscattering, absorption, fluorescence, Raman;
- New concepts for photonic sensing.

For more information, please visit [here](https://www.mdpi.com/si/33864).



[mdpi.com/si/33864](https://www.mdpi.com/si/33864)

# Special Issue



*sensors*



an Open Access Journal by MDPI

## Editor-in-Chief

### **Prof. Dr. Vittorio M. N. Passaro**

Dipartimento di Ingegneria  
Elettrica e dell'Informazione  
(Department of Electrical and  
Information Engineering),  
Politecnico di Bari, Via Edoardo  
Orabona n. 4, 70125 Bari, Italy

## Message from the Editor-in-Chief

*Sensors* is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. *Sensors* organizes Special Issues devoted to specific sensing areas and applications each year.

## Author Benefits

**Open Access** : free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

**High Visibility**: indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [PubMed](#), [MEDLINE](#), [PMC](#), [Ei Compendex](#), [Inspec](#), [Astrophysics Data System](#), and [other databases](#).

**Journal Rank**: JCR - Q2 (Instruments and Instrumentation) / CiteScore - Q1 (Instrumentation)

## Contact Us

*Sensors* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/sensors](http://mdpi.com/journal/sensors)  
[sensors@mdpi.com](mailto:sensors@mdpi.com)  
[X@Sensors\\_MDPI](#)